figure 2a

lpi ~~(SEQ ID NO: 2)~~ (SEQ ID NO: 1 + 2)

ATCTATATAGTTAATGAATAATTAATGACTTTTTTTTTAGTTAGTAGTCATTAAAATAAATTAGTACTAATTACT

AAGGAGAATAAAAAATGAAAATTAGAAAATCTATACTTGCGGGAACTTTAGCAATCGTTTTAGCATCACCAC

TAGTAACTAATCTAGATAAAAATGAGGCACAAGCTAGCACAAGCTTGCCAACATCGAATGAATATCAAAAACG

AAAAGTTAGCTAATGAATTAAAATCGTTATTAGATGAACTAAAATGTTAATGAATTAGCTACTGGAAGTTTAA

T

ACACTTATTATAAGCGAACTATAAAAATTTCAGGTCAAAAAGCAAATGTATGCTCTTAAGTCAAAAGACTTTA

AGAAAAATGTCAGAAGCAAAATATCAACTTCAAAAGATTTATAACGAAAATTGACGAAGCACTAAAAAGTAAAT

ATTAAAAAAACCACCCGTAAAAGGGTGGTTTTAATTTTCTAGATAATATAAAAGTGTTCATAAATAAAAACAG

TATAGG

Figure 2b

LpiB ~~(SEQ ID NO: 4)~~ (SEQ ID NO:9)

GGAGAGTTTACAATGAAATTTAAAAAATATATTAACAGGAACATTAGCAT
TACTTTATCATCACTGGACAAATATTTAACTATAGAGGGAATAAAGCAGATG
CAAGTAGTCTGACAAATATTTAACTGAAGTCAGTTTCATGATAAACGCA
TAGCAGAAGAATTAAGAACTTTACTTAACAAATCGAATGTATATGCATTAG
CTGCAGGAAGCTTAAATCCATATTATAAACGTACGATTATGATGAATGAAT
ATAGAGCTAAAGCGGCACTTAAGAAAAATGATTTCGTATCAATGGCTGATG
CTAAAGTTGCATTAGAAAAAATATACAAGAGAATTGATGAAATTATAAATA
GATAAT

LpiC ~~(SEQ ID NO: 6)~~ (SEQ ID NO:10)

GGAGAATTACAATGAAATTTAAAAAATATATAGTAGCAGGAACATTAGCAGTAGTACTATTATTCAACAACAGCAGTATCAACGTTAGATGGGAA
TAAAGCAGATGCAAGTAGTAGTAAGAAAGACTATATAATTCAAGTGAGTTTCATGATAAACGAATTGCTGAAGAATTGAAATCATTACTTGATC
AATCTTTATGTAAATGATTTAGCTGCAGGAAGCTTAAACCCATACTACAAACGTATGATTATGATGAACCAATATAGAGCAAAAGCAGCACTA
AAAGTAATAATTTCGCAAAAATGGCTGAAGCTAAAGTTGGATTAGAAAAACATTACAAGAAAACATTGATGAAATTATAAATAGATAAT

LpiD ~~(SEQ ID NO: 8)~~ (SEQ ID NO:11+12)

GGAGTAACAAAGCATGACAAACAAATGAAAATCAAAACATATTTAGTTGCTGGTATTAAAGCGGCGCTCCTTGATACGACTGGTATTAAA
TTAGCAAGCAAATCTGAAACTACACTACATCAACGTATCAACATCAAGCGCTTGTAGATCAATTACATGAATTAATAGCAAACACTGACTTAAA
TAAATTATCGTACCTAAATTTAGATGCGTTTCAAAAACGGATATTTAGCTGCGCCACTATATTGCAAAATCCGCTATACGCCACTAAAAATTT
                                                                                                                T
                                                                                                                G
GGATCAAATGACTAAAGCGAAACAAAGATTAGAAAGTATTTACAATTCAATTCAATTTCTAACCCTTTGCATTCACAAAACAATTAATAATTCA

Figure 3

LPI (116aa) (SEQ ID NO: 3 + 4)

MKIRKSILAGTLAIVLIASPLVTNLDKNEAQASTSLPTSNEYQNEKLANELKSLLDELNVNELATGSLNTYYK

    L

RTIKISGQKAMYALKSKDFKKMSEAKYQLQKIYNEIDEALKSKY

LPI-B (116aa) (SEQ ID NO 5)

MKFKKYILTGTLALLLSSTGIATIEGNKADASSLDKYLTESQFHDKRIAEELRTLLNKSNVYALAAGSLNPYYKRTIMMNEYRAKAALKKNDEVSMADAKVALEKIYKEIDEIINR

LPI-C (116aa) (SEQ ID NO: 6)

MKFKKYIVAGTLAVLLSTTAVSTLDGNKADASSKKDYIIQSEFHDKRIAEELKSLLDQSYVNDLAAGSLNPYYKRMIMMNQYRAKAALKSNNFAKMAEAKVGLENIYKEIDEIINR

LPI-D (114aa) (SEQ ID NO: 7 + 8)

MTTQMKIKTYLVAGIKAALLDTTGIKLASKSETTSHTYQHQALVDQLHELIANTDLNKLSYLNLDAFQK

        H   D

RDILAAHYIAKSAIRTKNLDQMTKAKQRLESIYNSISNPLHSQNN

FIG. 2A

lpi (SEQ ID NO:1 AND 2)

ATCTATATAGTTAATGAATAATTAATGTACTTTTTTTTAGTTAGTAGTCATTAAAATAAATTAGTACTAATTACT

AAGGAGAATAAAAATGAAAATTAGAAAATCTATACTTGCGGGAACTTTAGCAATCGTTTTAGCATCACCAC

TAGTAACTAATCTAGATAAAATGAGGCACAAGCTAGCACAAGCTTGCCAACATCGAATGAATATCAAAACG

T

AAAAGTTAGCTAATGAATTAAAATCGTTATTAGATGAACTAAAATGTTAATGAATTAGCTACTGGAAGTTTAA

ACACTTATTATAAGCGAACTATAAAAATTTCAGGTCAAAAAGCAATGTATGCTTCTTAAGTCAAAAGACTTTA

AGAAAAATGTCAGAAGCAAAATATCAACTTCAAAAGATTTATAACGAAATTGACGAAGCACTAAAAAGTAAAT

ATTAAAAAAACCACCCGTAAAAGGGGTGGTTTTAATTTTCTAGATAATATAAAAGTGTTCATAAATAAAAACAG

TATAGG

FIG. 2B

Figure 2b

LpiB (SEQ ID NO:9)

GGAGAGTTTACAATGAAATTTAAAAAAATATATATTAACAGGAACATTAGCAT
TACTTTTATCATCAACTGGGATAGCAACTATAGAAGGGAATAAAGCAGATG
CAAGTAGTCTGGACAAATATTTAACTGAAAGTCAGTTTCATGATAAACGCA
TAGCAGAAGAATTAAGAACTTTACTTAACAAATCGAATGTATATGCATTAG
CTGCAGGAAGCTTAAATCCATATTATAAACGTACGATTATGATGAATGAAT
ATAGAGCTAAAGCGGCACTTAAGAAAAATGATTTCGTATCAATGGCTGATG
CTAAAGTTGCATTAGAAAAAATATACAAAGAAATTGATGAAATTATAAAATA
GATAAT

LpiC (SEQ ID NO:10)

GGAGAATTTACAATGAAATTTAAAAAAATATATATAGTAGCAGGAACATTAGCTAGGAACATTAGCGAAGGGAA
TAAAGCAGATGCAAGTAGTAAGAAAGACTATATAATTCAAAGTGAGTTTCATGATAAACGAATTGCTGAAAATCATTACTTGATC
AATCTTATGTAAATGATTTAGCTGCAGGAAGCTTAAACCCATACTACAAACGTATGATTATGATGAACCAATATAGAGCAAAAGCAGCACTA
AAAAGTAATAATTTCGCAAAAAATGGCTGAAGCTAAAGTTGGATTAGAAAAACATTACAAAGAAAATGATGAAATTATAAATAGATAAT

LpiD (SEQ ID NO:11 AND 12)

GGAGTAACAAAGCATGACAACACAAATGAAAATCAAAACATATTTAGTTGCTGGATATAAAGCGGCGCCTCCTTGATACGACTGGTATTAAA
TTAGCAAGCAAATCTGAAACTACACTACATCACATCAAGCGCTCGTTGTAGATCAATTACATGAATTAATAGCAAACACTGACTTAAA
TAAATTATCGTACCTAAAATTTAGATGCGTTTCAAAAAACGCGATATTTTAGCTGCGCACTATATTGCAAAATCCGCTATACGCCACTAAAAATTT

                                    T   G
GGATCAAATGACTAAAGCGAAAACAAAGATTAGAAAGTATTTACAATTCAATTTCTAACCCTTTGCATTCACAAAACAATTAATAATTCA

FIG. 3

LPI (116aa) (SEQ ID NO:3 AND 4)

MKIRKSILAGTLAIVLASPLVTNLDKNEAQASTSLPTSNEYQNEKLANELKSLLDELNVNELATGSLNTYYK

          L

RTIKISGQKAMYALKSKDFKKMSEAKYQLQKIYNEIDEALKSKY

LPI-B (116aa) (SEQ ID NO 5)

MKFKKYILTGTLALLLSSTGIATIEGNKADASSLDKYLTESQFHDKRIAEELRTLLNKSNVYALAAGSLNPYYKRTIMNEYRAKAALKKNDEVSMADAKVALEKIYKEIDELINR

LPI-C (116aa) (SEQ ID NO:6)

MKFKKYIVAGTLAVLLSTTAVSTLDGNKADASSKKDYIIQSEFHDKRIAEELKSLLDQSYVNDLAAGSLNPYYKRMIMNQYRAKAALKSNNFAKMAEAKVGLENIYKEIDELINR

LPI-D (114aa) (SEQ ID NO:7 AND 8)

MTTQMKIKTYLVAGIKAALLDTTGIKLASKSETTSHTYQHQALVDQLHELIANTDLNKLSYLNLDAFQK

          H   D

RDILAAHYIAKSAIRTKNLDQMTKAKQRLESIYNSISNPLHSQNN